

FORM 2A Rev 04/01

State of Colorado Oil and Gas Conservation Commission 1120 Lincoln Street, Suite 801, Denver, Colorado 80205 Phone: (303) 894-2100 Fax: (303) 894-2109



Table with 4 columns: DE, ET, OE, ES

Document Number: 400149521

Oil and Gas Location Assessment

New Location Amend Existing Location Location#: 419688

Submit original plus one copy. This form is to be submitted to the COGCC prior to any ground disturbance activity associated with oil and gas development operations...

Location ID: 419688 Expiration Date: 04/28/2014

This location assessment is included as part of a permit application.

1. CONSULTATION

- This location is included in a Comprehensive Drilling Plan. CDP #
This location is in a sensitive wildlife habitat area.
This location is in a wildlife restricted surface occupancy area.
This location includes a Rule 306.d.(1)A.ii. variance request.

2. Operator

Operator Number: 10338 Name: CARRIZO OIL & GAS INC Address: 1000 LOUISIANA STREET #1500 City: HOUSTON State: TX Zip: 77002

3. Contact Information

Name: Venessa Langmacher Phone: (303) 857-9999 Fax: (303) 450-9200 email: vllpermitco@aol.com

4. Location Identification:

Name: Orlando Hill Number: 26-44-8-61 County: WELD Quarter: SE SE Section: 26 Township: 8N Range: 61W Meridian: 6 Ground Elevation: 4982 Define a single point as a location reference for the facility location... Footage at surface: 700 feet FSL, from North or South section line, and 950 feet FEL, from East or West section line. Latitude: 40.627640 Longitude: -104.167069 PDOP Reading: 3.2 Date of Measurement: 07/08/2010 Instrument Operator's Name: DAVID J. MURRAY

5. Facilities (Indicate the number of each type of oil and gas facility planned on location):

Special Purpose Pits: 0 Drilling Pits: 2 Wells: 1 Production Pits: 0 Dehydrator Units: 0 Condensate Tanks: 0 Water Tanks: 2 Separators: 2 Electric Motors: 0 Multi-Well Pits: 0 Gas or Diesel Motors: 0 Cavity Pumps: 0 LACT Unit: 0 Pump Jacks: 0 Pigging Station: 0 Electric Generators: 0 Gas Pipeline: 1 Oil Pipeline: 0 Water Pipeline: 0 Flare: 0 Gas Compressors: 0 VOC Combustor: 0 Oil Tanks: 4 Fuel Tanks: 0 Other: 0

6. Construction:

Date planned to commence construction: 04/15/2011 Size of disturbed area during construction in acres: 7.00
 Estimated date that interim reclamation will begin: 07/15/2011 Size of location after interim reclamation in acres: 2.00
 Estimated post-construction ground elevation: 4982 Will a closed loop system be used for drilling fluids: Yes
 Will salt sections be encountered during drilling: Yes No Is H2S anticipated? Yes No
 Will salt (>15,000 ppm TDS Cl) or oil based muds be used: Yes No
 Mud disposal: Offsite Onsite Method: Land Farming Land Spreading Disposal Facility
 Other: Evaporation and Burial

7. Surface Owner:

Name: _____ Phone: _____
 Address: _____ Fax: _____
 Address: _____ Email: _____
 City: _____ State: _____ Zip: _____ Date of Rule 306 surface owner consultation: _____
 Surface Owner: Fee State Federal Indian
 Mineral Owner: Fee State Federal Indian
 The surface owner is: the mineral owner committed to an oil and gas lease
 is the executer of the oil and gas lease the applicant
 The right to construct the location is granted by: oil and gas lease Surface Use Agreement Right of Way
 applicant is owner
 Surface damage assurance if no agreement is in place: \$2000 \$5000 Blanket Surety ID _____

8. Reclamation Financial Assurance:

Well Surety ID: 20100108 Gas Facility Surety ID: _____ Waste Mgnt. Surety ID: _____

9. Cultural:

Is the location in a high density area (Rule 603.b.): Yes No
 Distance, in feet, to nearest building: 3036, public road: 700, above ground utilit: 700
 , railroad: 5280, property line: 700

10. Current Land Use (Check all that apply):

Crop Land: Irrigated Dry land Improved Pasture Hay Meadow CRP
 Non-Crop Land: Rangeland Timber Recreational Other (describe): _____
 Subdivided: Industrial Commercial Residential

11. Future Land Use (Check all that apply):

Crop Land: Irrigated Dry land Improved Pasture Hay Meadow CRP
 Non-Crop Land: Rangeland Timber Recreational Other (describe): _____
 Subdivided: Industrial Commercial Residential

12. Soils:

List all soil map units that occur within the proposed location. Attach the National Resource Conservation Service (NRCS) report showing the "Map Unit Description" report listing the soil typical vertical profile. This data is to used when segregating topsoil.

IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.

The required information can be obtained from the NRCS web site at <http://soildatamart.nrcs.usda.gov/> or from the COGCC web site GIS Online map page found at <http://colorado.gov/cogcc>. Instructions are provided within the COGCC web site help section.

NRCS Map Unit Name: 44. Olney Fine Sandy Loam, 0-6% slopes

NRCS Map Unit Name: 73. Vona Sandy Loam, 0-3% slopes

NRCS Map Unit Name: _____

13. Plant Community:

Complete this section only if any portion of the disturbed area of the location's current land use is on non-crop land.

Are noxious weeds present: Yes No

Plant species from: NRCS or, field observation Date of observation: _____

List individual species: _____

Check all plant communities that exist in the disturbed area.

- Disturbed Grassland (Cactus, Yucca, Cheatgrass, Rye)
- Native Grassland (Bluestem, Grama, Wheatgrass, Buffalograss, Fescue, Oatgrass, Brome)
- Shrub Land (Mahogany, Oak, Sage, Serviceberry, Chokecherry)
- Plains Riparian (Cottonwood, Willow, Aspen, Maple, Poplar, Russian Olive, Tamarisk)
- Mountain Riparian (Cottonwood, Willow, Blue Spruce)
- Forest Land (Spruce, Fir, Ponderosa Pine, Lodgepole Pine, Juniper, Pinyon, Aspen)
- Wetlands Aquatic (Bullrush, Sedge, Cattail, Arrowhead)
- Alpine (above timberline)
- Other (describe): _____

14. Water Resources:

Rule 901.e. may require a sensitive area determination be performed. If this determination is performed the data is to be submitted with the Form 2A.

Is this a sensitive area: No Yes Was a Rule 901.e. Sensitive Areas Determination performed: No Yes

Distance (in feet) to nearest surface water: 2877, water well: 4050, depth to ground water: 265

Is the location in a riparian area: No Yes Was an Army Corps of Engineers Section 404 permit filed No Yes

Is the location within a Rule 317B Surface Water Suppl Area buffer zone:

No 0-300 ft. zone 301-500 ft. zone 501-2640 ft. zone

If the location is within a Rule 317B Surface Water Supply Area buffer have all public water supply systems within 15 miles been notified: No Yes

15. Comments:

Carrizo is requesting to add a fresh water frac pit to this location.

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: _____ Date: 04/01/2011 Email: VLLPermitco@aol.com

Print Name: Venessa Langmacher Title: Regulatory Supervisor

IMPORTANT: SOME DATA FIELDS HAVE BEEN MODIFIED.

Based on the information provided herein, this Application for Permit-to-Drill complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: David S. Nesline Director of COGCC Date: 4/29/2011

CONDITIONS OF APPROVAL, IF ANY:

All representations, stipulations and conditions of approval stated in this Form 2A for this location shall constitute representations, stipulations and conditions of approval for any and all subsequent operations on the location unless this Form 2A is modified by Sundry Notice, Form 4 or an Amended Form 2A.

COA 1: The freshwater storage pit shall include signage that: identifies the pit use as a freshwater-only pit, prohibits placing E&P Waste in the pit, and lists each well that the pit will serve.
COA 2: Operator is prohibited from allowing any fluids to flow back to the freshwater storage pit.
COA 3: The freshwater storage pit shall be constructed and maintained to prevent terrestrial wildlife or livestock entrapment.
COA 4: Notify COGCC OGLA Specialist Rick Allison at rick.allison@state.co.us 48 hours prior to construction of the freshwater storage pit.

Attachment Check List

Att Doc Num	Name
2613594	CORRESPONDENCE
400149521	FORM 2A SUBMITTED
400150119	CONST. LAYOUT DRAWINGS

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
OGLA	Ready to Pass 4/26/2011.	4/8/2011 1:40:35 PM
OGLA	7 acres includes pad, fresh water pit, and access road; requested operator concurrence on COAs.	4/7/2011 9:00:35 AM
Permit	Back to draft. Second attachment (not form 2A) won't open. sf	4/5/2011 10:53:35 AM
Permit	Back to draft. Attachments lost during server crash on 4/1/11. sf	4/4/2011 1:51:18 PM

Total: 4 comment(s)

BMP

<u>Type</u>	<u>Comment</u>

Total: 0 comment(s)